

45 OHM TALKBACK INTERIOR SPEAKERS WITH LED

**V-1060B****V-1062B, V-1064B, V-1066B**

INTRODUCTION

These instructions contain the specifications and guidelines necessary to install, operate, and maintain the 45 Ohm Talkback Interior Speaker Assemblies with LED.

The 45 Ohm Talkback Interior Speaker Assemblies with LED are for use with the Valcom "handsfree" talkback page control units and provide both loudspeaker and talkback functions with LED indication in the monitor condition. These speakers are for interior use only.

SPECIFICATIONS

Features

- 45 Ohm Impedance
- 8 Inch Speaker
- LED indicator
- Easy Hook-up (2 connections using house cable or station wire)

Dimensions/Weights

- V-1060B 8" Ceiling Speaker w/LED
13" Dia. X 2.5" D
(33.02cm Dia. x 6.35cm D)
2.4 lbs. (1.09 kg)
- V-1062B Wall Speaker - wood grain with
light brown open weave grille –
10.6" H x 9.7" W x 5.2" D
(26.9cmH x 24.6cmW x 13.2cmD)
5.3 lbs. (2.41 kg)

- V-1064B Corner Speaker - wood grain with
light brown open weave grille –
10.5"H x 9.75"W x 6.3"D
(26.7cmH x 24.1cmW x 16cmD)
3.6 lbs. (1.63 kg)

- V-1066B Corridor Speaker - wood grain with
light brown open weave grille -
10.3"H x 10.3"W x 4.2"D
(26.2cmH x 26.2cmW x 10.7cmD)
5.7 lbs (2.59 kg)

Power Requirements

45 mA @ -24 Vdc max (for powering the LED)

Environment

Temperature -20 to +55°C
Humidity 0-95% non-precipitating

SYSTEM DESIGN

General

The 45 Ohm Talkback Speakers are designed to be used with the Valcom "handsfree" talkback control units. In combination with these units, they will provide both loudspeaker and talkback functions with LED indication.

A standard Valcom talkback paging system is made up of three basic components:

1. A talkback page control unit.
2. Speakers (45 Ohm)
3. A power supply.

Although the "B" series 45 Ohm Talkback Interior Speakers with LED can be used with all Valcom Talkback Control Units, consult Valcom's VSP Handsfree Talkback Paging (947100) for detailed information on selecting the control unit and power supply.

NOTE: Only the Valcom V-1109RTHF and V-9921HF provide provisions for activating the LED.

Coverage

The distance you can be away from a speaker and still have good talkback depends on the type of speaker and the ambient noise level. In a typical office environment, a wall speaker (V-1062B, V-1064B, V-1066B) will cover approximately 600 square feet (talkback from 25') and a ceiling speaker (V-1060B) will cover approximately 250 square feet when mounted 8' from the floor (talkback from 10'). Ceiling speaker coverage is dependent on ceiling height; the greater the ceiling height, the larger the area covered.

IMPORTANT

The speaker is no better than your ears. If you cannot carry on a conversation at normal voice levels over the required talkback distance, then the talkback page equipment will not function satisfactorily.

Use common sense when mounting a talkback speaker. The speaker should be as close as possible to the area where talkback is desired. It should not be mounted close to, or pointed at, noise producing equipment such as fans, air conditioners, machinery, or compressors.

Limitations

- Two talkback speakers maximum per zone unless V-9922A talkback speaker selection units are used. Refer to the next section for details.
- Two talkback plus 40 one-way amplified speakers maximum per zone when mixing talkback and one-way paging.
- 800 feet maximum cable length to speaker from page control.

NOTE: Do not split pairs to speakers.

- Do not use talkback in noisy areas (80dB or greater).

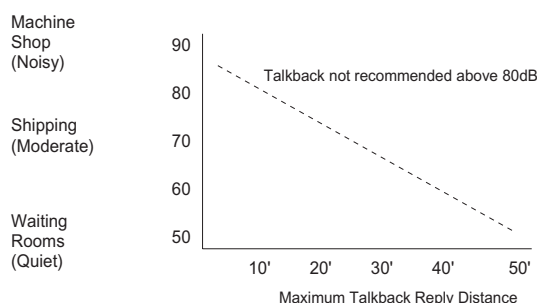
V-9922A Talkback Speaker Selection Units

Valcom recommends that the total number of speakers per talkback zone be limited to two talkback and forty one-way self-amplified speakers. The reasoning behind this recommendation is simple. Whenever a page is made into a talkback zone, the paging party will hear audio from all of the talkback speakers in that zone. If a zone contains more than two talkback speakers, the talkback audio from the "extra" speakers will impede the quality of the talkback audio from the desired speaker. Additionally, there are limits to the number of talkback speakers that a page control will actually drive.

Ideally, if a page were made into a talkback zone, all of the speakers would simply act like "one-way" speakers except for the one that is closest to the paged person. Talkback capability can be provided by utilizing a V-9922A Talkback Speaker Selection Unit for each talkback speaker. (A V-9928 Wall Mount 5 Watt Amplifier is also required for every six (6) talkback speakers).

When a page is made, all speakers provide one-way

TYPICAL REPLY DISTANCE CHART



announcement. In order to respond, the paged party activates the closest speaker with a press of the push-button of that speakers associated talkback speaker selection unit. This activates the chosen speaker as a talkback speaker and resets any previously selected speaker. Contact Valcom Technical Support at (540) 427-3900 for additional information.

INSTALLATION

Connections

Two conductor twisted wire is required for the 45 ohm talkback speakers. Standard 22 or 24 gauge station wire is acceptable. Shielded wire is not required or recommended. Connections are as follows:

- Speaker out from page control to speaker tip.
- Speaker common to speaker ring.
- Switched –24 Vdc to –24 Vdc (LED).
- Power supply Ground to GND (LED).

Mounting

V-1060B: Cut an 8.5" dia. hole in ceiling tile. After connections have been made to the speaker, attach speaker to ceiling tile using the mounting hardware provided. NOTE: Where extra speaker support is needed, a V-9916 or V-9916M Valcom Bridge and Backbox should be used.

V-1062B: After making the required connections, fasten a suitable mounting screw (#10 sheet metal screw or similar) to the wall at the desired location for mounting of the speaker. Hang the speaker on the screw using the keyhole on the speaker bracket.

V-1064B: After making the required connections to the speaker, use appropriate hardware such as an 8d finishing nail and hang the speaker in the corner. Typical mounting height would be 8 feet.

V-1066B: Unscrew mounting bracket and baffle from speaker assembly. Using appropriate hardware, mount the bracket to the wall. After making the required connections, reattach the baffle to the speaker and the speaker to the mounting bracket.

TECHNICAL ASSISTANCE

When trouble is reported, verify the unit is properly connected and there are no broken connections leading to this unit.

Assistance in troubleshooting is available from the factory. When calling, you should have a volt-ohm meter and a lineman's test set and be calling from the job site. Call (540) 427-3900 and ask for Technical Support, or (540) 427-6000 for Valcom 24-hour Automated Support or visit our website at <http://www.valcom.com>.

Valcom equipment is not field repairable. Valcom, Inc. maintains service facilities in Roanoke, VA. Should repairs be necessary, attach a tag to the unit clearly stating company name, address, phone number, contact person, and the nature of the problem. Send the unit to:

**Repair and Return Dept.
Valcom, Inc.
5614 Hollins Road
Roanoke, VA 24019-5056**

TROUBLESHOOTING CHART	
SYMPTOM	ACTION
<ul style="list-style-type: none">• No sound in page mode.	<ul style="list-style-type: none">• Check tip and ring for audio at speaker.• Check tip and ring for audio at control unit.
<ul style="list-style-type: none">• Low sound in page mode.	<ul style="list-style-type: none">• Check volume controls at page control.
<ul style="list-style-type: none">• Poor listening in talkback mode.	<ul style="list-style-type: none">• Check talkback volume control at page control. Set control where audio is clearly audible.
<ul style="list-style-type: none">• No LED indication.	<ul style="list-style-type: none">• Check presence and polarity of LED input signal.

VALCOM LIMITED WARRANTY

Valcom, Inc. warrants its products to be free from defects in materials and workmanship under conditions of normal use and service for a period of one year from the date of shipment. The obligation under this warranty shall be limited to the replacement, repair or refund of any such defective device within the warranty period, provided that:

1. inspection by Valcom, Inc. indicates the validity of the claim,
2. the defect is not the result of damage, misuse, or negligence after the original shipment.
3. the product has not been altered in any way or repaired by others and that factory sealed units are unopened (A service charge plus parts and labor will be applied to units defaced or physically damaged),
4. freight charges for the return of products to Valcom are prepaid,
5. all units 'out of warranty' are subject to a service charge. The service charge will cover minor repairs (Major repairs will be subject to additional charges for parts and labor).

This warranty is in lieu of and excludes all other warranties, expressed or implied, and in no event shall Valcom, Inc. be liable for any anticipated profits, consequential damages, loss of time or other losses incurred by the buyer in connection with the purchase, operation, or use of the product.

This warranty specifically excludes damage incurred in shipment. In the event a product is received in damaged condition, the carrier should be notified immediately. Claims for such damage should be filed with the carrier involved in accordance with the F.O.B. point.

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